



Novel P Devlin Changes.ST25.txt  
SEQUENCE LISTING

<110> Zengen, Inc.

<120> Modified Alpha-MSH Peptides and Derviatives Thereof

<130> 54275.8016.US01

<140> 10/714,343

<141> 2003-11-14

<160> 46

<170> PatentIn version 3.1

<210> 1

<211> 8

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<213> Artificial

<220>

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<222> (7)..(7)

<223> X is DPhe

<400> 1

His Phe Arg Trp Gly Lys Xaa Val  
1 5

<210> 2

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<223> Designed Peptide

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<222> (2)..(2)

<223> X is Phe or DNal

<400> 2

Novel P Devlin Changes.ST25.txt

His Xaa Phe Trp Gly Lys Pro Val  
1 5

<210> 3  
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<220>  
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<223> X is Phe or DPhe

<400> 3

His Xaa Arg Trp Gly Lys Xaa Val  
1 5

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<222> (7)..(7)  
<223> X is an amino acid bearing a non-polar fnc group.

<400> 4

His Phe Arg Trp Gly Lys Xaa Val  
1 5

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<222> (8)..(8)  
<223> X is an aa other than val having a non-polar functional group o

r  
a hydrophobic functional group.

<400> 5

His Phe Arg Trp Gly Lys Pro Xaa  
1 5

<210> 6

<211> 8

<212> PRT

<213> Artificial

<220>

<221> MISC\_FEATURE

<222> (6)..(6)

<223> X is an aa, not including Lys, having a non-polar functional group.  
p.

<400> 6

His Phe Arg Trp Gly Xaa Pro Val  
1 5

<210> 7

<211> 8

<212> PRT

<213> Artificial

<220>

<221> MISC\_FEATURE

<222> (7)..(7)

<223> X is an aa with positively charged functional group.

<400> 7

His Phe Arg Trp Gly Lys Xaa Val  
1 5

<210> 8

<211> 8

Novel P Devlin Changes.ST25.txt

<212> PRT  
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<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> X is an aa having a negatively charged functional group.

<400> 8

His Phe Arg Trp Gly Lys Xaa Val  
1 5

<210> 9  
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<213> Artificial

<220>  
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<222> (2)..(7)  
<223> X at 2 is DPhe or DNaI and X at 7 is an aa having a negatively  
ch  
arged functional group

<400> 9

His Xaa Arg Trp Gly Lys Xaa Val  
1 5

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<213> Artificial

<220>  
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<222> (4)..(4)  
<223> Trp is DTrp

<400> 10

His Phe Arg Trp Gly Lys Pro Val

Novel P Devlin Changes.ST25.txt

1 5

<210> 11  
<211> 8  
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<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> X is an uncharged functional group polar aa.

<400> 11

His Phe Arg Trp Gly Lys Xaa Val  
1 5

<210> 12  
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<222> (2)..(7)  
<223> X at 2 is DPhe or DNal; X at 7 is an aa with an uncharged polar  
f  
unctional group.

<400> 12

His Xaa Arg Trp Gly Lys Xaa Val  
1 5

<210> 13  
<211> 13  
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<213> Homo sapiens

<400> 13

Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val  
1 5 10

Novel P Devlin Changes.ST25.txt

<210> 14  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 14

Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys  
1 5 10 15

Arg Arg Pro Val Lys Val Tyr Pro Ala Lys Glu Asp Asp Glu Ala Ser  
20 25 30

Glu Ala Phe Pro Leu Glu Phe  
35

<210> 15  
<211> 7  
<212> PRT  
<213> Artificial

<400> 15

Met Glu His Phe Arg Trp Gly  
1 5

<210> 16  
<211> 3  
<212> PRT  
<213> Artificial

<400> 16

Lys Pro Val  
1

<210> 17  
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<213> Artificial

Novel P Devlin Changes.ST25.txt

<400> 17

His Phe Arg Trp

1

<210> 18

<211> 8

<212> PRT

<213> Artificial

<220>

<221> MISC\_FEATURE

<222> (8)..(8)

<223> Val is DVal

<400> 18

His Phe Arg Trp Gly Lys Pro Val

1

5

<210> 19

<211> 8

<212> PRT

<213> Artificial

<400> 19

His Phe Arg Trp Gly Ala Pro Val

1

5

<210> 20

<211> 8

<212> PRT

<213> Artificial

<400> 20

His Phe Arg Trp Gly Lys Ala Val

1

5

<210> 21

<211> 8

<212> PRT

<213> Artificial

<400> 21

His Phe Arg Trp Gly Lys Pro Ala  
1 5

<210> 22

<211> 8

<212> PRT

<213> Artificial

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<222> (2)..(2)

<223> Phe is DPhe

<400> 22

His Phe Arg Trp Gly Lys Pro Val  
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<210> 23

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<213> Artificial

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<222> (2)..(2)

<223> X is DNal

<400> 23

His Xaa Arg Trp Gly Lys Pro Val  
1 5

<210> 24

<211> 8

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<220>



Novel P Devlin Changes.ST25.txt

<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> Trp is DTrp

<400> 24

His Phe Arg Trp Gly Lys Pro Val  
1 5

<210> 25  
<211> 8  
<212> PRT  
<213> Artificial

<400> 25

His Phe Arg Trp Gly Lys Pro Leu  
1 5

<210> 26  
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<222> (7)..(7)  
<223> Ala is DAla

<400> 26

His Phe Arg Trp Gly Lys Ala Val  
1 5

<210> 27  
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<212> PRT  
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<221> MISC\_FEATURE  
<222> (2)..(2)  
<223> X is DNal

Novel P Devlin Changes.ST25.txt

<400> 27

His Xaa Arg Trp Gly Lys Ala Val  
1 5

<210> 28

<211> 8

<212> PRT

<213> Artificial

<220>

<221> MISC\_FEATURE

<222> (2)..(7)

<223> X is DNal; Ala is DAla

<400> 28

His Xaa Arg Trp Gly Lys Ala Val  
1 5

<210> 29

<211> 8

<212> PRT

<213> Artificial

<400> 29

His Phe Arg Trp Gly Lys Gly Val  
1 5

<210> 30

<211> 8

<212> PRT

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<221> MISC\_FEATURE

<222> (2)..(2)

<223> X is DNal

<400> 30

Novel P Devlin Changes.ST25.txt

His Xaa Arg Trp Gly Lys Gly Val  
1 5

<210> 31  
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<213> Artificial

<400> 31

His Phe Arg Trp Gly Lys Ser Val  
1 5

<210> 32  
<211> 8  
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<222> (2)..(2)  
<223> X is DNal

<400> 32

His Xaa Arg Trp Gly Lys Ser Val  
1 5

<210> 33  
<211> 8  
<212> PRT  
<213> Artificial

<400> 33

His Phe Arg Trp Gly Lys Phe Val  
1 5

<210> 34  
<211> 8  
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Novel P Devlin Changes.ST25.txt

<220>  
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<222> (7)..(7)  
<223> Phe is DPhe

<400> 34

His Phe Arg Trp Gly Lys Phe Val  
1 5

<210> 35  
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<212> PRT  
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<222> (2)..(7)  
<223> Phe is DPhe at 2 and 7

<220>  
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<222> (2)..(2)  
<223> Phe is DPhe at 2

<400> 35

His Phe Arg Trp Gly Lys Phe Val  
1 5

<210> 36  
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<220>  
<221> MISC\_FEATURE  
<222> (2)..(7)  
<223> Phe is DPhe at 2 and 7

<400> 36

Novel P Devlin Changes.ST25.txt

His Phe Arg Trp Gly Lys Phe Val  
1 5

<210> 37  
<211> 8  
<212> PRT  
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<220>  
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<222> (2)..(2)  
<223> X is DNal

<400> 37

His Xaa Arg Trp Gly Lys Phe Val  
1 5

<210> 38  
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<220>  
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<222> (2)..(7)  
<223> X is DNal Phe is DPhe at 7

<400> 38

His Xaa Arg Trp Gly Lys Phe Val  
1 5

<210> 39  
<211> 8  
<212> PRT  
<213> Artificial

<400> 39

His Phe Arg Trp Gly Lys Asp Val  
1 5

Novel P Devlin Changes.ST25.txt

<210> 40  
<211> 8  
<212> PRT  
<213> Artificial

<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> Asp is DAsp

<400> 40

His Phe Arg Trp Gly Lys Asp Val  
1 5

<210> 41  
<211> 8  
<212> PRT  
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<220>  
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<222> (2)..(2)  
<223> Phe at 2 is DPhe

<400> 41

His Phe Arg Trp Gly Lys Asp Val  
1 5

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<223> X is DNal

<400> 42

Novel P Devlin Changes.ST25.txt

His Xaa Arg Trp Gly Lys Asp Val  
1 5

<210> 43  
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<400> 43

His Phe Arg Trp Gly Lys Glu Val  
1 5

<210> 44  
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<222> (2)..(2)  
<223> X is DNal

<400> 44

His Xaa Arg Trp Gly Lys Glu Val  
1 5

<210> 45  
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<213> Artificial

<400> 45

His Phe Arg Trp Gly Lys Lys Val  
1 5

<210> 46  
<211> 8  
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Novel P Devlin Changes.ST25.txt

<220>

<221> MISC\_FEATURE

<222> (2)..(2)

<223> X is DNal

<400> 46

His Xaa Arg Trp Gly Lys Lys Val

1 5